This listing of claims will replace all prior versions, and listings, of claims in the application:

## LISTING OF CLAIMS:

- 1. (Canceled)
- (Currently Amended) The method of claim [[1]] 4, further comprising forming a
  passivating layer over the last metal + 1 Cu level of the Cu laminate inductor.
- (Original) The method of claim 2, further comprising forming a passivating layer of CoWP over the last metal + 1 Cu level of the Cu laminate inductor.
- 4. (Currently Amended) A method of fabricating a high performance copper (Cu) laminate inductor The method of claim 1, for forming a Cu-inductor having an aluminum bond pad, further comprising the steps of:
- a- forming a last metal layer <u>including</u> damascene Cu interconnects in a dielectric, <u>one</u>
   Cu interconnect including a Cu laminate inductor at the last metal level;
- $\mathfrak{d}_{\overline{\tau}}$  depositing one or more layers of passivation material over the last metal layer damascene Cu interconnects;
- e. patterning terminal vias in the one or more layers of passivation material corresponding to said Cu interconnects, one terminal via including a via of the Cu laminate inductor over the last metal Cu level of the Cu laminate inductor;
- de forming a bond pad structure above one of said Cu interconnects including depositing metal for said bond pads pad and a barrier layer, patterning the metal for said bond pads pad and barrier layer, and depositing a Cu seed layer atop said bond pad and barrier layer:

e- depositing and patterning a resist for Cu inductors, and depositing Cu to selectively form Cu in inductor regions at a last metal + 1 Cu level of the Cu laminate inductor over the via and the last metal Cu level, to form the Cu laminate inductor; and,

£ stripping the resist, etching the Cu seed layer, and selectively depositing a passivating layer on said Cu inductors.

## 5. (Currently Amended) The method of claim 4, further including:

g. after step f, coating the structure of step f said last metal + 1 level having said Cu inductors and bond pad structure with polyimide, and forming openings to said bond pads pad: and,[[,1]]

h. depositing barrier layer metallurgy, and forming solder balls.

- 6. (Withdrawn) The method of claim 1, for forming a Cu inductor having a Cu bond pad, further comprising the steps of:
  - a. forming last metal layer damascene Cu interconnects in a dielectric;
- b. depositing one or more layers of passivation material over the last metal layer damascene Cu interconnects:
  - c. patterning terminal vias in the one or more layers of passivation material;
  - d. depositing a barrier layer and Cu seed layer;
- e. depositing and patterning a resist for Cu inductors, and depositing Cu to selectively form Cu in inductor regions;

f. stripping the resist, etching the Cu seed layer, and selectively depositing a passivating layer on Cu inductors and terminals.

## 7. (Withdrawn) The method of claim 6, further including:

- g. after step f, coating the structure of step f with polyimide, and forming openings to bond pads.
  - h. depositing barrier layer metallurgy, and forming solder balls.

- 8. (Withdrawn) The method of claim 1, for forming a Cu inductor having a raised Cu bond pad, further comprising the steps of:
  - a, forming last metal layer damascene Cu interconnects in a dielectric;
- b. depositing one or more layers of passivation material over the last metal layer damascene Cu interconnects;
  - c. patterning terminal vias in the one or more layers of passivation material;
  - d. depositing a barrier layer and Cu seed layer;
- e. depositing and patterning a resist for Cu inductors, terminals and interconnect wiring, and depositing Cu to selectively form Cu in unmasked regions;
- f. stripping the resist, etching the Cu seed layer, and selectively depositing a passivating layer on Cu inductors, terminals and interconnect wiring.
- 9. (Withdrawn) The method of claim 8, further including:
- g. after step f, coating the structure of step f with polyimide, and forming openings to bond pads.
  - h. depositing barrier layer metallurgy, and forming solder balls.
- 10. (Withdrawn) The method of claim 1, further including depositing a Cu seed layer before depositing and patterning resist, followed by selective deposition of Cu, comprising:
  - a. after a terminal via etch, depositing a barrier layer, and depositing the Cu seed layer;
- b. depositing and patterning resist for inductors, terminals and interconnects, and depositing Cu by electroplating to selectively form Cu in inductor, terminal and interconnect regions;
  - c. stripping the resist and etching the Cu seed layer and the barrier layer.
- 11. (Withdrawn) The method of claim 1, further including depositing a Cu seed layer after depositing and patterning resist, followed by blanket deposition of Cu and chemical mechanical polishing, comprising:
  - a. after a terminal via etch, depositing a barrier layer;

- b. depositing and patterning resist for inductors, terminals and interconnects, and depositing Cu seed layer;
  - c. depositing Cu;
  - d. removing excess Cu;
  - e. stripping the resist and etching the barrier layer.
- 12. (Withdrawn) The method of claim 1, further including depositing a barrier layer and Cu seed layer after depositing and patterning resist, followed by blanket deposition of a barrier layer and Cu and chemical mechanical polishing, comprising:
  - a. after a terminal via etch;
- b. depositing and patterning resist for inductors, terminals and interconnects, depositing a barrier adhesion layer, and depositing Cu seed layer;
  - c. depositing Cu;
  - d. removing excess Cu, removing the barrier adhesion layer;
  - e. stripping the resist and etching the barrier layer.
- 13. (Withdrawn) The method of claim 1, further including selectively depositing a passivating metal.
- 14. (Withdrawn) The method of claim 1, further including selectively depositing a passivating dielectric.
- 15. (Withdrawn) The method of claim 1, further including selectively depositing a passivating metal and a passivating dielectric.
- 16. (Withdrawn) The method of claim 1, further including selectively depositing a passivating metal or a passivating dielectric, etching back to form spacers, deposit dielectric layer.
- 17. (Withdrawn) The method of claim 1, further including selectively depositing a passivating metal or a passivating dielectric, etching back to form spacers, deposit selective metal on Cu.

18. (Withdrawn) The method of claim 1, further including selectively depositing a passivating metal or a passivating dielectric, deposit selective metal on Cu, etching back to form spacers, deposit dielectric layer.